

**ABSTRACT****A Cellular Radio Communications System**

5           A cellular radio communication system for transmitting  
blocks of data over transmission links in which the quality  
of the transmission links are monitored. The system  
comprises a data storage means for storing sets of  
modulation scheme and forward error correction coding  
10          level pairs to give an optimum data rate at a  
predetermined bit error rate and a predetermined symbol  
rate for different quality transmission links. The database  
is interrogated and a modulation scheme and forward error  
correction coding level pair is allocated and applied to the  
15          blocks of data transmitted over a transmission link  
dependent on the monitored quality of the transmission  
link.

Figure 10.